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320. *Elaphidion arctum* Nm. 321. *E. pumilum* Nm. 322. *E. defendum* Nm.

323. *Encyclops cæruleus* Say (Leptura), J. Acad. Nat. Sc. 5,280. *ENCYCLOPS* Nm. *pallipes* Nm. Ent. Mag. 5,392. This genus seems more nearly allied to *MOLORCHUS* than to *LEPTURA*.

*Adjourned Meeting, November 9.*

Present, thirty-one members.

Dr. CHAPMAN, President, in the Chair.

The special business of the meeting was transacted

*Stated Meeting, December 17.*

Present, twenty members.

Dr. BACHE, Vice-President, in the Chair.

Letters were received and read:—

From the Ethnological Society of Paris, dated 25th August, 1847, announcing a donation to this Society; and a desire that they should receive in return the publications of this Society: and,—

From Mr. W. D. Lewis, dated Philadelphia, 17th December, 1847, on matters connected with his claim against the Society.

The following donations were announced:—

FOR THE LIBRARY.

Journal Asiatique, ou Recueil de Mémoires, d'Extraits et de Notices relatifs à l'Histoire, à la Philosophie, etc. des Peuples Orientaux. Quatrième Série. Juin, 1847. No. 45. Tome IX. Juillet, Août. Nos. 46 et 47. Tome X. 8vo.—*From the Society.*  
Mémoires de la Société Ethnologique. Tome premier, en deux parties, 1841. Tome Second, en deux parties, 1845. 8vo.—*From the same.*

- Bulletin de la Société Ethnologique de Paris. Tome premier, Année 1846. Année 1847. Janvier à Mars. 8vo.—*From the Ethnological Society of Paris.*
- Summary of the Transactions of the College of Physicians of Philadelphia. From June to November, 1847, inclusive. Vol. II. No. 3. 8vo.—*From the College.*
- Journal of the Franklin Institute of the State of Pennsylvania. Vol. XLIV. No. 264. Third Series. Vol. XIV. December, 1847. No. 6. 8vo.—*From the Institute.*
- Proceedings of the Historical Society of Pennsylvania. Vol. I. February, No. 9. March, No. 10. September, No. 12. 1847. 8vo.—*From the Society.*
- Fisher's National Magazine and Industrial Record. Published by Reawood Fisher, New York. Vol. I. June to November, 1845. Vol. II. December, 1845, to May, 1846. Vol. III. June to November, 1846.—*From Thomas Gilpin, Esq.*
- Females and their Diseases; a Series of Letters to his Class. By Charles D. Meigs, M.D. Philadelphia, 1848. 8vo.—*From the Author.*
- Memoir of Francis Baily, Esq., D.C.L. Oxford and Dublin, President of the Royal Astronomical Society, &c. &c. By Sir John F. W. Herschel, Bart. 8vo. Accompanied with a Portrait, engraved by Thomas Lupton, from the original painting, by Thos. Phillips, R.A., of Mr. Baily.—*From the Rev. R. Sheepshanks.*
- A Brief Notice of the Life, Researches, and Discoveries of F. W. Bessel. By Sir J. F. W. Herschel. 8vo.—*From the same.*

#### ADDITIONS TO THE LIBRARY BY PURCHASE.

- Annales de Chimie et de Physique. Par MM. Gay-Lussac, Arago, Chevreul, etc. Troisième Série. Tome XXI. Septembre, Octobre, 1847. 8vo.
- Comptes Rendus Hebdomadaires des Séances de l'Académie des Sciences. Tome XXV. Nos. 5 à 16. 2 Août, 18 Octobre, 1847. 4to.

On motion of Dr. Patterson, the Committee on the Solar Eclipse, appointed at the meeting of the 6th December, 1844, was discharged.

Judge Kane announced the death of Chancellor James Kent, of New York, a member of this Society, who died on the 12th instant, at the age of 85; when on motion of Mr. G. W. Smith,

Judge Kane was appointed to prepare an obituary notice of Chancellor Kent.

Professor Kendall presented a communication from Mr. Walker, containing new elements for the planet Neptune.

Prof. Kendall communicated the following elliptic elements of the planet Neptune, derived by Mr. S. C. Walker from a discussion of 689 observations, including those made by Lalande in 1795.

Long. of perihelion,	$\pi = 48^\circ 21' 2''.93$	} Mean Equinox of Jan. 1st, 1847.
„ ascending node,	$\Omega = 130^\circ 4' 35.03$	
Inclination,	$i = 1^\circ 46' 59.54$	
Eccentricity,	$e = 0.00857741$	
Mean daily sidereal motion,	$\mu = 21''.55448$	
Epoch, January 1st, 1847,	$M = 328^\circ 31' 56''.36$	Mean noon, Greenwich.
Period,	$T = 164.6181$	Tropical years.

The heliocentric co-ordinates for the mean equinox of January 1, 1847, are,—

$$\begin{aligned} x &= [9.9998769]. r. \sin (v + 138^\circ 21' 52''.13) \\ y &= [9.9662265]. r. \sin (v + 48^\circ 55' 27.32) \\ z &= [9.5800962]. r. \sin (v + 45^\circ 2' 37.90) \end{aligned}$$

The four normal places used as the basis of these computations are given below, corrected for parallax, and refraction, but not for planetary aberration. They are referred to the mean equinox above mentioned. The perturbations of Neptune by all the other planets, were computed by Prof. Peirce, and have been applied to the elliptic places.

Mean time, Greenwich.		1795	1846	1847	1847
		May 9d.45256	Nov. 7d.0	April 6d.0	Aug. 22d.0
Obs. Geo. R. A.,	<i>A</i>	213 39' 34''.18	327 49' 50''.24	331 49' 45''.65	331 19' 13''.71
„ Dec.,	<i>D</i>	—11 34 36.21	—13 34 21.65	—12 9 17.82	—12 24 7.55
True elliptic long.,	<i>v</i>	215 48 12.73	327 13 58.37	328 8 0.93	328 57 44.75
Perturbations,	<i>dv</i>	+ 37 60	+ 32.10	+ 31.29	+ 29.49
True ell. Rad. Vec.,	<i>r</i>	30.28772	29.99441	29.99042	29.98677
Perturbations,	<i>dr</i>	+ 0.01207	+ 0.01608	+ 0.01497	+ 0.01493
Computed Geo. R. A.,	<i>A'</i>	213 39' 32''.32	327 49' 53''.16	331 49' 44''.82	331 19' 13''.95
„ Dec.,	<i>D'</i>	—11 34 34.89	—13 34 20.42	—12 9 20.47	—12 24 7.56
Corr. Eph.,	<i>A—A'</i>	+ 1.86	— 2.92	+ 0.83	— 0.24
„	<i>D—D'</i>	— 1 32	— 1.23	+ 2.65	+ 0.01

Professor Tucker read a paper on “the Association of Ideas,” in which, in conformity with his lectures formerly delivered

in the University of Virginia, he maintained that all the phenomena of mental association were to be explained by that law, both of body and mind, by which each has a tendency to repeat its former acts; and that it is a necessary result of this law that proximity of time or place, resemblance, and contrast, are the principles of connexion between conjoined ideas.

Professor Tucker further remarked, that there appeared to be some coincidence between his views of association and those of Sir William Hamilton in his recent edition of Reid's works, but the latter part of the note on this subject being omitted, by the carelessness of the binder, in the copy he had seen, the only one he believed in the city, he could not yet say how far Professor Hamilton's theory of association agreed with his own, and how far they differed.

The Committee of Finance, by Mr. C. C. Biddle, made their annual report.

#### ERRATUM.

In the Proceedings, Vol. IV., No. 35, p. 269, the final character of the Wyandot numeral for *five*, should be inverted.